

ABSTRACT OF THE DISCLOSURE

A motor drive for rolling steel door, which includes a motor, a speed reducer driven by the motor to take up/let off the rolling steel door, a brake disk turned with the motor shaft of the motor, a sprocket wheel moved along an axle and forced by a spring into engagement with the brake disk to stop the motor shaft of the motor from rotation, an electromagnet securely mounted on the axle and magnetized to attract the sprocket wheel for enabling the motor shaft of the motor to rotate freely upon starting of the motor, a lever operated by hand to disengage the sprocket wheel from the brake disk, a pivoted stop plate forced by spring means to stop the sprocket wheel from rotation, a chain mounted on the sprocket wheel and pulled by hand to disconnect the stop plate from the sprocket wheel, and a control box coupled to the power output shaft of the speed reducer to control the operation of the motor, wherein when the control box is controlled to start the motor, the electromagnet is magnetized to attract the sprocket wheel from the brake disk, enabling the motor shaft of the motor to be freely rotated to take up/let off the rolling steel door; when power fails or is cut off from the motor and the electromagnet, the sprocket wheel is pushed forwards by the compression spring to stop the brake disk

and the motor shaft of the motor from rotation.

SECRET